

SYSTEM-RESOURCE-BASED MULTI-MODAL INPUT FUSION

Abstract of the Disclosure

5 A multi-modal input fusion (MMIF) (200) is made scalable based on the
resources available. When system resources are low, the MMIF module will limit
the number of elements in each set of related interpretations. Additionally, the
number of sets generated can be increased or reduced based on an amount of
system resources available. In order to accommodate the scalable MMIF module,
10 a resource profile (205) is provided to the MMIF describing the amount of
resources (memory, processing power, etc.) available, and/or an amount of
resources the MMIF module can utilize. Based on the amount of resources the
MMIF module calculates threshold values that are used to adjust the number of
sets produced and the number of elements included within each set.

15